

Title (en)

SOLAR POWER GENERATION, DISTRIBUTION, AND COMMUNICATION SYSTEM

Title (de)

SYSTEM ZUR ERZEUGUNG, VERTEILUNG UND ÜBERTRAGUNG VON SONNENENERGIE

Title (fr)

GÉNÉRATION D'ÉNERGIE SOLAIRE, DISTRIBUTION, ET SYSTÈME DE COMMUNICATION

Publication

EP 3295532 A1 20180321 (EN)

Application

EP 16723902 A 20160506

Priority

- US 201514707830 A 20150508
- US 2016031277 W 20160506

Abstract (en)

[origin: WO2016182931A1] A solar panel (400) is disclosed that can be daisy-chained with other solar panels (100a-n). The solar panel (400) automatically generates output alternative current (AC) power (195) that is in parallel with input AC power (112) coming into the solar panel (400) when the solar panel (400) senses the input AC power (112) so that the solar panel (400) operates as a slave in this state. The solar panel (400) automatically generates standalone AC output power (195) when the solar panel (400) fails to detect input AC power (112) coming into the solar panel (400) where the solar panel operates as a master in this state. The solar panel (400) generates the standalone output AC power (195) without any reliance on input AC power (112) generated by a utility grid and/or other AC power sources external to the solar panel (400).

IPC 8 full level

H02J 3/12 (2006.01); **H02J 3/28** (2006.01); **H02J 3/38** (2006.01); **H02J 7/35** (2006.01); **H02J 13/00** (2006.01)

CPC (source: EP US)

H02J 3/12 (2013.01 - EP US); **H02J 3/381** (2013.01 - EP US); **H02J 3/466** (2020.01 - EP US); **H02J 7/35** (2013.01 - EP); **H02J 13/00001** (2020.01 - EP US); **H02J 13/00007** (2020.01 - EP US); **H02J 2300/24** (2020.01 - EP US); **H02J 2310/10** (2020.01 - EP); **Y02E 10/56** (2013.01 - EP); **Y02E 40/70** (2013.01 - EP US); **Y02E 60/00** (2013.01 - EP); **Y02E 70/30** (2013.01 - EP); **Y04S 10/123** (2013.01 - EP); **Y04S 40/121** (2013.01 - EP)

Citation (search report)

See references of WO 2016182931A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016182931 A1 20161117; AU 2016262457 A1 20171221; BR 112017023931 A2 20190924; EP 3295532 A1 20180321; MX 2017014244 A 20190226; PH 12017502218 A1 20180611; TW 201711331 A 20170316

DOCDB simple family (application)

US 2016031277 W 20160506; AU 2016262457 A 20160506; BR 112017023931 A 20160506; EP 16723902 A 20160506; MX 2017014244 A 20160506; PH 12017502218 A 20171205; TW 105114354 A 20160509